

Sanskriti Amol Kharsamble

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EDUCATION

Indiana State University

Masters of Science in Computer Science

Terre Haute, IN

Aug. 2023 – May 2025

Pillai HOC College of Engineering and Technology

Affl. Mumbai University; B.E. in Computer Engineering

Panvel, Maharashtra, India

Aug. 2019 – May 2023

TECHNICAL SKILLS

Languages: Java, JavaScript, HTML5, CSS3, SQL, TypeScript

Backend & Frameworks: Spring Boot, Spring MVC, Hibernate, JPA

Frontend Technologies: React.js, Angular, Bootstrap

Databases: MySQL, PostgreSQL, MongoDB

Developer Tools: Git, GitHub, Maven, Postman, VS Code, IntelliJ IDEA

Testing: JUnit, Mockito

Cloud & DevOps: Docker, Jenkins (basic), AWS (EC2, S3, RDS)

Other Skills: RESTful API Development, JWT Authentication, Microservices Architecture, Agile/Scrum

EXPERIENCE

Marketing Graduate Assistant - Residential Life

Indiana State University

October 2024 - May 2025

Terre Haute, IN

- Developed and maintained internal marketing dashboards and email campaign tools using HTML, CSS, and basic JavaScript to support data-driven decision-making.
- Orchestrated social media automation workflows to streamline content distribution across Instagram, Facebook, and TikTok using scheduling tools and analytics platforms.
- Designed and optimized responsive UI components and visual content using Adobe Creative Suite and Canva, improving mobile engagement rates by 12%.
- Collaborated cross-functionally with student affairs and IT teams to implement dynamic content updates on university housing web pages, enhancing accessibility and user interaction.
- Evaluated marketing campaign performance metrics and iteratively improved content strategies using A/B testing and engagement analysis.

Skills: HTML, CSS, JavaScript, UI/UX design, responsive design, analytics, cross-functional collaboration, content automation, communication

Front-End Web Developer

AdiFlex Technologies

June 2022 – January 2023

Mumbai, India

- Led the development of a modern and efficient admin panel, reducing operational workload by 10+ hours/month.
- Created consistent cross-browser interfaces (Chrome, Edge, Opera, Safari) for FormExpress product.
- Wrote optimized website content and landing pages, significantly improving SEO and site traffic.
- Collaborated with UI/UX designers to enhance user interaction and experience.

Skills: React.js, cross-browser development, SEO, content writing, UX design, collaboration

Python Developer Intern

Sahu Technologies

July 2021 – Dec 2021

Remote

- Developed and maintained backend services using Python and Flask for automation and data-driven applications.
- Created RESTful APIs and integrated third-party APIs to streamline internal operations and analytics.
- Collaborated with the development team to build reusable modules and deliver efficient backend functionality.

Skills: Python, Flask, REST APIs, JSON, API Integration, Team Collaboration, Problem-Solving

Business Growth Intern

Younity.in

April 2021 – May 2021

New Delhi, Delhi

- Conducted market research and composed analytical reports to inform content strategy.
- Assisted the Research Wing with blog writing and community engagement to drive user interaction.

Skills: Research, Content Writing, User Engagement, Analytics, Communication

PROJECTS

Arcade Paradise | *React, Node.js, Express, MongoDB, Tailwind CSS*

- Designed and developed a responsive, social-enabled gaming platform with integrated leaderboard and chat
- Built RESTful APIs using Express and Node.js to handle user profiles, game stats, and achievements
- Implemented MongoDB for data storage and integrated social login for user convenience
- Focused on dynamic UX with smooth transitions and responsive layouts using Tailwind CSS

Locomotive JS Tutorial Hub | *HTML5, CSS3, JavaScript, Locomotive Scroll, Netlify*

- Created a visually rich, single-page documentation site showcasing advanced Locomotive Scroll animations
- Utilized custom animations and parallax effects to enhance user interaction and modern web design practices
- Hosted on Netlify with optimized SEO and mobile responsiveness for developer community access
- Included code samples, demos, and structured navigation to improve educational value

Medical Supplies Delivery Drone | *Arduino, GPS, React, Node.js, Firebase, 3D Printing*

- Developed a UAV capable of delivering up to 1kg of medical supplies to emergency locations
- Programmed GPS-based navigation using Arduino and integrated fail-safe landing system
- Built a real-time tracking dashboard using React and Firebase to monitor drone location and delivery status
- Designed and 3D-printed the drone chassis, ensuring aerodynamic structure and payload capacity

Rutezz – Winner, Smart India Hackathon 2022 | *Android, Firebase, Nearby API, AWS EC2, Java*

- Led a team of 6 to victory in the AICTE Smart India Hackathon 2022, securing **All India Rank 1** for solving a national-scale problem under the Ministry of Commerce and Industry
- Engineered a peer-to-peer digital payment solution supporting **offline transactions** via Bluetooth, NFC, and Wi-Fi using the **Nearby Connections API**
- Developed a secure mobile app enabling tokenized, encrypted offline transfers with seamless sync to cloud (Firebase) when internet is restored
- Architected the backend on **AWS EC2** for reliability and scalability, designed to handle updates from decentralized clients
- Addressed real-world challenges such as no-internet zones and network congestion, supporting inclusive financial transactions without UPI PIN or fees

Voice-Controlled Robotic Car | *Arduino, C++, Bluetooth Module, Android App*

- Built a robotic car controlled through voice commands via an Android app using Bluetooth communication
- Programmed the Arduino microcontroller in C++ to interpret and execute directional commands
- Designed a custom Android interface to capture voice input and transmit data to the car's microcontroller
- Integrated sensors and manual override to ensure safety and maneuverability

Intelligent Traffic Management System | *Python, OpenCV, YOLOv3, Tkinter, ThingSpeak*

- Developed a smart traffic signal system that uses video processing to dynamically adjust light durations based on real-time traffic density.
- Utilized YOLOv3 and OpenCV for accurate vehicle detection from surveillance footage and displayed results via a Tkinter GUI.
- Integrated ThingSpeak cloud for real-time traffic analytics, enabling data-driven insights for smart urban planning.

PUBLICATIONS

Drona-Chariot - A Medical Equipment Carrier Drone STM Journals, Aug 2023

[Link](#)

- Co-authored research on autonomous UAVs for delivering medical supplies to remote trauma sites, simulating GPS-based, out-of-sight flights for critical care access.
- Demonstrated faster, safer delivery of life-saving items like tourniquets and blood products in civilian and military rescue scenarios.

AWARDS & ACHIEVEMENTS

Winner – Smart India Hackathon 2022

- Spearheaded **Team Rutezz** in the national-level AICTE Smart India Hackathon (Software Edition), organized by *Startup India, DPIIT, Ministry of Commerce and Industry*, solving problem statement **KK183**.
- Engineered a secure digital payment application that ensured transaction safety while enhancing business payment usability.
- Authored and submitted the top-ranked technical proposal, surpassing hundreds of national teams.
- Demonstrated innovation in fintech security, UI/UX, and system design, earning recognition from government evaluators.